

KOREAN PATENT ABSTRACTS XML 1(1-1)

Save



Please Click here to view the drawing

Korean FullDoc

(19) KOREAN INTELLECTUAL PROPERTY OFFICE

## KOREAN PATENT ABSTRACTS

(11)Publication number: 1020020056411 A

(43)Date of publication of application: 10.07.2002

(21)Application number: 1020000085764

(22)Date of filing: 29.12.2000

(71)Applicant:

LG.PHILIPS LCD CO., LTD.

(72)Inventor:

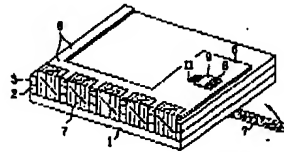
HONG, HUI JEONG

(51)Int. Cl. G02F 1 /1333

## (54) COMBINATION STRUCTURE OF TOUCH CONTROLLER AND LCD MODULE CONTROLLER IN LCD INTEGRATED WITH TOUCH PANEL

## (57) Abstract:

PURPOSE: A combination structure of a touch controller and an LC module controller in an LCD integrated with a touch panel is provided to decrease the thickness of the LCD by improving a connecting structure of signal lines of the touch panel and the touch controller. CONSTITUTION: An LCD integrated with a touch panel includes a touch panel(1), an LCD module(2) and a back light(3). An LCD module controller and a touch controller are integrated on a PCB(6) placed behind the back light. The PCB has a connector insertion hole(8), and a connector(9) is mounted on the PCB while being inserted into the connector insertion hole. The terminals of the connector is soldered to be electrically connected to a signal line on the PCB.



copyright KIPO 2003

## Legal Status

Date of request for an examination (20021021)

Notification date of refusal decision (00000000)

Final disposal of an application (registration)

Date of final disposal of an application (20050718)

*Cited reference document 4*

[19] 中华人民共和国国家知识产权局

[51] Int. Cl<sup>7</sup>

G06F 3/033

G02F 1/133

## [12] 发明专利申请公开说明书

[21] 申请号 01144619.6

[43] 公开日 2002 年 7 月 31 日

[11] 公开号 CN 1361471A

[22] 申请日 2001.12.20 [21] 申请号 01144619.6  
[30] 优先权  
[32] 2000.12.29 [33] KR [31] P-2000-0085764  
[71] 申请人 LG 飞利浦 LCD 株式会社  
地址 韩国汉城  
[72] 发明人 洪熙政

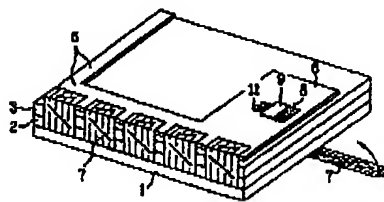
[74] 专利代理机构 隆天国际专利商标代理有限公司  
代理人 徐金国 陈 红

权利要求书 1 页 说明书 5 页 附图页数 4 页

[54] 发明名称 与触摸板结合的液晶显卡板中的触摸控制器与液晶显示器组件控制器的组合结构

## [57] 摘要

本发明的目的是提供与触摸板结合的 LCD 中的触摸控制器和 LCD 组件控制器的组合结构,它通过把触摸控制器和 LCD 组件控制器集成在 PCB 上而避免了触摸控制器的安装空间限制,并改善了触摸板和触摸控制器之间的信号线连接,因此能制成更薄的带触摸板的 LCD。为实现发明目的,本发明提供一种与触摸板结合的 LCD 中的触摸控制器和 LCD 组件控制器的组合结构。所述 LCD 具有触摸板, LCD 组件机背照光源,在背照光源背面设有集成有 LCD 组件控制器和触摸控制器的印刷电路板 PCB。



ISSN 1000-4274

知识产权出版社出版